WEST Search History

Hide Items Restore Clear Cancel

DATE: Wednesday, June 15, 2005

Hide? Set Name Query								
DB=PGPB,USPT; PLUR=YES; OP=ADJ								
· []	L8	L6 and plant	97					
	L7	L4 and plant	8					
	L6	hypomethyl\$ and transgen\$	130					
	L5	hypotmethyl\$ and transgen\$	0					
	L4	paramut\$	28					
	L3	pta3956 or pta4030 or pta3965 or pta3828	0					
	L2	pta-3956 or pta-4030 or pta-3965 or pta-3828	1					
	L1	mop2-1 or rmr1-1 or rmr2-1 or mop1-1	1					

END OF SEARCH HISTORY

```
Welcome to STN International! Enter x:x
```

LOGINID: ssspta1649axm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
                Web Page URLs for STN Seminar Schedule - N. America
NEWS 1
NEWS 2
                "Ask CAS" for self-help around the clock
                PATDPAFULL - New display fields provide for legal status
NEWS 3 FEB 28
                data from INPADOC
       FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS
NEWS
     5
        MAR 02 GBFULL: New full-text patent database on STN
        MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS
     7
        MAR 03
                MEDLINE file segment of TOXCENTER reloaded
NEWS
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new
                fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online
NEWS 15 APR 25 Patent searching, including current-awareness alerts (SDIs),
                based on application date in CA/Caplus and USPATFULL/USPAT2
                may be affected by a change in filing date for U.S.
                applications.
                Improved searching of U.S. Patent Classifications for
NEWS
     16 APR 28
                U.S. patent records in CA/CAplus
     17 MAY 23
                GBFULL enhanced with patent drawing images
NEWS
NEWS
     18 MAY 23
                REGISTRY has been enhanced with source information from
                CHEMCATS
NEWS
     19 JUN 06
                STN Patent Forums to be held in June 2005
                The Analysis Edition of STN Express with Discover!
NEWS 20 JUN 06
                (Version 8.0 for Windows) now available
NEWS 21 JUN 13 RUSSIAPAT: New full-text patent database on STN
NEWS 22 JUN 13 FRFULL enhanced with patent drawing images
NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS
             STN Operating Hours Plus Help Desk Availability
             General Internet Information
NEWS INTER
NEWS LOGIN
             Welcome Banner and News Items
             Direct Dial and Telecommunication Network Access to STN
NEWS PHONE
NEWS WWW
             CAS World Wide Web Site (general information)
```

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

=> FIL STNGUIDE

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21

FILE 'STNGUIDE' ENTERED AT 14:18:09 ON 15 JUN 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 10, 2005 (20050610/UP).

=> file agricola caplus biosis

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY

0.06 0.27

SESSION

FULL ESTIMATED COST

FILE 'AGRICOLA' ENTERED AT 14:18:19 ON 15 JUN 2005

FILE 'CAPLUS' ENTERED AT 14:18:19 ON 15 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 14:18:19 ON 15 JUN 2005 Copyright (c) 2005 The Thomson Corporation

=> dup rem 12

L2 IS NOT VALID HERE

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> dup rem 11

PROCESSING COMPLETED FOR L1

3 DUP REM L1 (1 DUPLICATE REMOVED)

=> d 1-3 ti

- L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- TI Mediator of paramutation1 is required for establishment and maintenance of paramutation at multiple maize loci
- L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Comparison between phenomenological and microscopic optical potential in nuclear data evaluations

=> d pi

L2	ANSWER 1 OF 3	CAPLUS COP	YRIGHT 2005	ACS on STN				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
ΡI	WO 2002029070	A2	20020411	WO 2001-US31285	20011005			
	WO 2002029070	C2	20030220					
	WO 2002029070	A3	20030814	•	•			
	W: AE, AG	, AL, AM, AT	C, AU, AZ, BA	, BB, BG, BR, BY,	BZ, CA, CH, CN,			
	CO, CR	, CU, CZ, DE	, DK, DM, DZ	, EC, EE, ES, FI,	GB, GD, GE, GH,			

```
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
        LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
        PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
        US, UZ, VN, YU, ZA, ZW
   RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
        KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
        IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
        GQ, GW, ML, MR, NE, SN, TD, TG
AU 2001096657
                    A5
                           20020415
                                       AU 2001-96657
US 2002157133
                    A1
                           20021024
                                       US 2001-972805
                                                               20011005
```

=> d 2 ab

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1 L2AΒ Paramutation is the directed, heritable alteration of the expression of one allele when heterozygous with another allele. Here, the isolation and characterization of a mutation affecting paramutation, mediator of paramutation1-1 (mop1-1), are described. Expts. demonstrate that the wild-type gene Mop1 is required for establishment and maintenance of the paramutant state. The mop1-1 mutation affects paramutation at the multiple loci tested but has no effect on alleles that do not participate in paramutation. The mutation does not alter the amts. of actin and ubiquitin transcripts, which suggests that the mopl gene does not encode a global repressor. Maize plants homozygous for mop1-1 can have pleiotropic developmental defects, suggesting that mop1-1 may affect more genes than just the known paramutant ones. The mor1 -1 mutation does not alter the extent of DNA methylation in rDNA and centromeric repeats. The observation that mop1 affects paramutation at multiple loci, despite major differences between these loci in their gene structure, correlations with DNA methylation, and stability of the paramutant state, suggests that a common mechanism underlies paramutation. A protein-based epigenetic model for paramutation is discussed.

=> d 2 so

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1 SO Plant Cell (2000), 12(11), 2101-2118 CODEN: PLCEEW; ISSN: 1040-4651

=> d 3 ab

L2ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN AB The chi square $(\chi 2)$ values, which represent the degree of the agreement of the calculated cross sections with their exptl. values, are calculated for 3 kinds of optical potential, which are resp. the phenomenol. optimal optical potential (OOP) for a specific element, the global phenomenol. optical potential given by Becchetti and Grenlees (BGP) for a large amount of target nuclei and the microscopic optical potential based on Skyrme force (MOP). Some 14 natural elements (each containing 1-4 isotopes) are calculated with 12-20 n incident energies, which are in the 0.1-24 MeV energy range for each element, resp. The calculated average total χ^2 values are $.\text{hivin}.\chi00P2 = 0.496$, $.\text{hivin}.\chi$ MOP2 = 1 .150, and .hivin. χ BGP2 = 1.355, from which one obtains the ratio of average deviation of calculated nuclear data from their exptl. values ..hivin. Δ MOP/.hivin. Δ OOP = 1.52 and .hivin. Δ BGP/.hivin. Δ OOP = 1.65. The microscopic optical potential based on Skyrme force, which has AN anal. formalism without any free parameters, is very useful in nuclear data calcns. and evaluations.

=> s paramuta?

L5 230 PARAMUTA?

=> s 15 and methyl?

L6 63 L5 AND METHYL?

=>

=> s 16 and plant?

L7 58 L6 AND PLANT?

=> dup rem 17

PROCESSING COMPLETED FOR L7

L8 33 DUP REM L7 (25 DUPLICATES REMOVED)

=> d 1-10 ti

- L8 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- TI Genomic imprinting in plants
- L8 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
- TI Trans allele methylation and paramutation-like effects in mice
- L8 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L8 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
- TI A mutation that prevents paramutation in maize also reverses Mutator transposon methylation and silencing
- L8 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
- TI Differential chromatin structure within a tandem array 100 kb upstream of the maize bl locus is associated with paramutation
- L8 ANSWER 6 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Plant epigenetics.
- L8 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
- TI Structural features and **methylation** patterns associated with **paramutation** at the r1 locus of Zea mays
- L8 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
- TI RNA-directed transcriptional gene silencing in **plants** can be inherited independently of the RNA trigger and requires Met1 for maintenance
- L8 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
- TI Robertson's Mutator transposons in A. thaliana are regulated by the chromatin-remodeling gene Decrease in DNA Methylation (DDM1)
- L8 ANSWER 10 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 8
- TI Transgene-induced silencing identifies sequences involved in the establishment of paramutation of the maize pl gene.

=> d 3 ab

- L8 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- AB Transgenic silencing is a little understood process by which genes introduced into **plants** are turned off or silenced. Genetic screens were designed to identify corn mutants with reduced gene silencing

activity. Such mutant corn lines include Mop1-1; Mop1-2EMS; Mop2-1, mop3-1; CC2343, rmr1-1; rmr1-2; rmr2-1; rmr6-1; rmr7-1; rmr7-2; rmr8-1; rmr9-1; Mop1-4; Mop1-5; and rmr11-1 and seeds derived therefrom, the plants are useful for corn breeding programs to produce inbred and hybrid seed with reduced gene silencing activity.

=> d 3 pi

L8	ANSWER	3 OF	33	CAP	LUS	COP	YRIG	HT 20	005.	ACS (on S'	ΓN					
	PATENT	NO.			KIN	D :	DATE			APPL	I CAT	I NO I	. O <i>l</i>		D	ATE	
ΡI	WO 2002	02907	70		A2		2002	0411	1	WO 2	001-1	JS31:	285		2	0011	005
	WO 2002029070				C2 20030220												
	WO 2002029070				A 3		2003	0814									
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JΡ,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	ŪĠ,
		US,	UZ,	VN,	YU,	ZA,	ZW										
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AM,	ΑZ,	BY,	KG,
		ΚZ,	MD,	RU,	TJ,	TM,	AT,	ΒE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,
		ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG								
	AU 2001096657				Α5		2002	0415		AU 2	001-9	9665	7		2	0011	005
	US 2002157133				A 1	20021024 US 2001-972805						20011005					

=> d 4 ab

L8ANSWER 4 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3 AΒ Both paramutation and Mutator (Mu) transposon inactivation involve heritable changes in gene expression without concomitant changes in DNA sequence. The mechanisms by which these shifts in gene activity are achieved are unknown. Here we present evidence that these two phenomena are linked mechanistically. We show that mutation of a gene, modifier of paramutation 1 (mop1), which prevents paramutation at three different loci in maize, can reverse methylation of Mutator elements reliably. In mop1 mutant backgrounds, methylation of nonautonomous Mu elements can be reversed even in the absence of the regulatory MuDR element. Previously silenced MuDR elements are reactivated sporadically after multiple generations of exposure to mop1 mutations. MuDR methylation is separable from MuDR silencing, because removal of methylation does not cause immediate reactivation. The mop1 mutation does not alter the methylation of certain other transposable elements including those just upstream of a paramutable b1 gene. Our results suggest that the mopl gene acts on a subset of epigenetically regulated sequences in the maize genome and paramutation and Mu element methylation require a common factor, which we hypothesize influences chromatin structure.

=> d 4 so

L8 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
SO Proceedings of the National Academy of Sciences of the United States of
America (2002), 99(9), 6130-6135
CODEN: PNASA6; ISSN: 0027-8424

=> d 5 ab

ANSWER 5 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4

Recombination mapping defined a 6-kb region, 100 kb upstream of the transcription start site, that is required for B-I enhancer activity and paramutation-a stable, heritable change in transcription caused by

allele interactions in maize (Zea mays). In this region, B-I and B' (the only b1 alleles that participate in paramutation) have seven tandem repeats of an 853-bp sequence otherwise unique in the genome; other alleles have one. Examination of recombinant alleles with different nos. of tandem repeats indicates that the repeats are required for both paramutation and enhancer function. The 6-kb region is identical in B-I and B', showing that epigenetic mechanisms mediate the stable silencing associated with paramutation. This is the first endogenous gene for which sequences required for paramutation have been defined and examined for methylation and chromatin structure. The tandem repeat sequences are more methylated in B-I (high expressing) relative to B' (low expressing), opposite of the typical correlation. Furthermore, the change in repeat methylation follows establishment of the B' epigenetic state. B-I has a more open chromatin structure in the repeats relative to B'. nuclease hypersensitivity differences developmentally precede transcription, suggesting that the repeat chromatin structure could be the heritable imprint distinguishing the two transcription states.

=> d 5 so

- L8 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4 SO Genes & Development (2002), 16(15), 1906-1918 CODEN: GEDEEP; ISSN: 0890-9369
- => d 6 ab
- L8 ANSWER 6 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- => d 6 so
- L8 ANSWER 6 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN SO Current Biology, (June 25, 2002) Vol. 12, No. 12, pp. R412-R414. print. CODEN: CUBLE2. ISSN: 0960-9822.
- => d 9 ab
- ANSWER 9 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
 Robertson's Mutator transposable elements in maize undergo cycles of activity and then inactivity that correlate with changes in cytosine methylation. Mutator-like elements are present in the Arabidopsis genome but are heavily methylated and inactive. These elements become demethylated and active in the chromatin-remodeling mutant ddml (Decrease in DNA Methylation), which leads to loss of heterochromatic DNA methylation. Thus, DNA transposons in plants appear to be regulated by chromatin remodeling. In inbred ddml strains, transposed elements may account, in part, for mutant phenotypes unlinked to ddml. Gene silencing and paramutation are also regulated by DDM1, providing support for the proposition that epigenetic silencing is related to transposon regulation.

=> d 9 so

- L8 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7 SO Genes & Development (2001), 15(5), 591-602 CODEN: GEDEEP; ISSN: 0890-9369
- => d 7 ab
- L8 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5

 AB In paramutation, two alleles of a gene interact and, during the interaction, one of them becomes epigenetically silenced. The various

paramutation systems that have been studied to date exhibit intriguing differences in the phys. complexity of the loci involved. B and Pl alleles that participate in paramutation are simple, single genes, while the R haplotypes that participate in paramutation contain multiple gene copies and often include rearrangements. The number and arrangement of the sequences in particular complex R haplotypes have been correlated with paramutation behavior. Here, the phys. structures of 28 addnl. haplotypes of R were examined A specific set of phys. features is associated with paramutability (the ability to be silenced). However, no phys. features were strongly correlated with paramutagenicity (the ability to cause silencing) or neutrality (the inability to participate in paramutation). Instead, paramutagenic haplotypes were distinguished by high levels of cytosine methylation over certain regions of the genes while neutral haplotypes were distinguished by lack of C-methylation over these regions. These findings suggest that paramutability of R1 is determined by the genetic structure of particular haplotypes, while paramutagenicity is determined by the epigenetic state.

=> d 7 so

- L8 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5 SO Genetics (2001), 159(3), 1201-1215 CODEN: GENTAE; ISSN: 0016-6731
- => d 10 ab
- L8 ANSWER 10 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 8
- A transgene carrying a distal enhancer element of the maize P1-rr promoter AB caused silencing of an endogenous P1-rr allele in the progeny of transgenic maize plants. Expression of both the transgene and the endogenous P1-rr allele was reduced in the affected plants. The silenced phenotype was observed in the progeny of seven of eight crosses involving three independent transgenic events tested (average frequency of 19%). This phenotype was associated with an induced epigenetic state of the P1-rr allele, termed P1-rr', which is characterized by increased methylation of the P1-rr flanking regions and decreased levels of P1-rr transcript. The P1-rr' epiallele is highly heritable in the absence of the inducing P1.2b::GUS transgene, and it can impose an equivalent state on a naive P1-rr allele in subsequent crosses (paramutation). In contrast, parallel experiments with two other P::GUS transgenes that contained the same basal P1-rr promoter fragment but different upstream sequences revealed no detectable silencing effect. Thus, transgenes carrying a specific enhancer fragment of the P1-rr gene promoter can trigger a paramutant state (P1-rr') of the endogenous P1-rr gene that is maintained in the absence of the inducing transgene. We discuss the potential role of the P1-rr distal enhancer element in the establishment and propagation of a paramutation system in maize.

=> d 10 so

- ANSWER 10 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN

 DUPLICATE 8
- SO The Plant cell, Feb 2001. Vol. 13, No. 2. p. 319-335
 Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989-

CODEN: PLCEEW; ISSN: 1040-4651

=> d 11- 20 ti YOU HAVE REQUESTED DATA FROM 24 ANSWERS - CONTINUE? Y/(N):n

=> d 11-20 ti

- L8 ANSWER 11 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Epigenetic control of gene expression in plants.
- L8 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9
- TI Mediator of paramutation1 is required for establishment and maintenance of paramutation at multiple maize loci
- L8 ANSWER 13 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 10
- TI Paramutation alters regulatory control of the maize pl locus.
- L8 ANSWER 14 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 11
- TI Genomic imprinting in **plants**: observations and evolutionary implications.
- L8 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Homology-dependent gene silencing in transgenic **plants**: Links to cellular defense responses and genome evolution
- L8 ANSWER 16 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 12
- TI Paramutation in maize.
- L8 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 13
- TI Epigenetics: regulation through repression
- L8 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Internuclear gene silencing in Phytophthora infestans
- ANSWER 19 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 14
- TI Molecular and cytogenetic characterization of a transgene locus that induces silencing and **methylation** of homologous promoters in trans.
- L8 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 15
- TI Paramutation of the r1 locus of maize is associated with increased cytosine methylation

=> d 12 ab

L8 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9

AB Paramutation is the directed, heritable alteration of the expression of one allele when heterozygous with another allele. Here, the isolation and characterization of a mutation affecting paramutation, mediator of paramutation1-1 (mopl-1), are described. Expts. demonstrate that the wild-type gene Mopl is required for establishment and maintenance of the paramutant state. The mopl-1 mutation affects paramutation at the multiple loci tested but has no effect on alleles that do not participate in

paramutation. The mutation does not alter the amts. of actin and ubiquitin transcripts, which suggests that the mopl gene does not encode a global repressor. Maize plants homozygous for mopl-1 can have pleiotropic developmental defects, suggesting that mopl-1 may affect more genes than just the known paramutant ones. The mopl-1 mutation does not alter the extent of DNA methylation in rDNA and centromeric repeats. The observation that mopl affects paramutation at multiple loci, despite major differences between these loci in their gene structure, correlations with DNA methylation, and stability of the paramutant state, suggests that a common mechanism underlies paramutation. A protein-based epigenetic model for paramutation is discussed.

=> d 12 so

- L8 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9
 SO Plant Cell (2000), 12(11), 2101-2118
 CODEN: PLCEEW; ISSN: 1040-4651
- => d 19 ab
- L8 ANSWER 19 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 14
- (2005) on STN DUPLICATE 14 One type of homology-dependent gene silencing in transgenic plants AB involves a silencing locus that is able to transcriptionally inactivate and methylate an unlinked target locus with which it shares sequence identity in promoter regions. In a manner resembling paramutation of endogenous genes, the target locus reactivates and loses methylation progressively over several generations after segregating away from the silencing locus, which autonomously acquires stable methylation. To investigate the origins of trans-silencing ability and susceptibility, we have analyzed the structures, flanking DNA sequences and chromosomal locations of a nopaline synthase promoter silencing locus, H2, and a sensitive target locus, K81. A partially resistant target locus, K alpha, has been characterized molecularly. The complex and scrambled H2 locus comprises six copies of the nopaline synthase promoter, two of which are collinear with prokaryotic non-T-DNA sequences, and is integrated close to a region of intercalary heterochromatin. These features probably contribute collectively to the silencing ability because H2 subclones reintroduced into random locations in the K81 genome did not frequently induce silencing. Both the K81 and K alpha loci have simple structures, although the former contains non-T-DNA prokaryotic sequences that are also present at H2, and they are flanked by low copy plant DNA. H2 and K81 might interact effectively because they are present on morphologically similar chromosomes from the T subgenome of allotetraploid tobacco.

=> d 20 ab

L8ANSWER 20 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 15 AΒ In paramutation, two alleles of a gene interact so that one of the alleles is epigenetically silenced. The silenced state is then genetically transmissible for many generations. The large (220 kbp) multigenic complex R-r is paramutable: its level of expression is changed during paramutation. R-r was found to exhibit increases in its level of cytosine methylation (Cmethylation) following paramutation. These Cmethylation changes are localized to the 5' portions of the two genes in the complex that are most sensitive to paramutation. These methylation changes flank a small region called σ that is thought to have been derived from a transposon named doppia. A mutant derivative of R-r that has a deletion of the σ region fails to become methylated under conditions in which R-r is heavily

methylated. This suggests that the presence of σ sequences at the locus is required for the methylation changes that are observed following paramutation.

- => d 20 so
- L8 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 15 SO Genetics (1998), 148(4), 1973-1981
- SO Genetics (1998), 148(4), 1973-198 CODEN: GENTAE; ISSN: 0016-6731

=> d 21-30 ti

- L8 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 16
- TI Epigenetic control of transcription. Epigenetic silencing of plant transgenes as a consequence of diverse cellular defense responses
- L8 ANSWER 22 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI **Plant** breeding progress and genetic diversity from de novo variation and elevated epistasis.
- L8 ANSWER 23 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Paramutation and related allelic interactions.
- L8 ANSWER 24 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Homology-dependent gene silencing in plants.
- L8 ANSWER 25 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Epigenetic silencing and activation of a maize r gene.
- L8 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 17
- TI Interchromosomal transfer of epigenetic states in Ascobolus: transfer of DNA methylation is mechanistically related to homologous recombination
- L8 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Epigenetic silencing and activation of a maize r gene
- L8 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- TI The role of DNA methylation in transgene silencing in plants
- L8 ANSWER 29 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI Gene silencing in higher **plants** and related phenomena in other eukaryotes.
- L8 ANSWER 30 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Susceptibility of transgene loci to homology-dependent gene silencing.
- => d 28 so
- L8 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN
- SO Mechanisms and Applications of Gene Silencing, [Easter School in Agricultural Science], 57th, Sutton Bonington, UK, Mar., 1995 (1996), Meeting Date 1995, 43-48. Editor(s): Grierson, Donald; Lycett, Grantley W.; Tucker, Gregory A. Publisher: Nottingham University Press, Nottingham,

ŪΚ.

CODEN: 63NBAT

=> d 28 ab

L8 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN

AB A review with 26 refs. on DNA methylation and gene activity, hypermethylation of multiple copies of genes in plants, position effects on transgenes in plants, transgene-specific methylation, and paramutation.

=> d 30 ab

- L8 ANSWER 30 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- AB ' Previous work has shown that two unlinked, partially homologous transgene loci can interact in plant nuclei, leading to reversible methylation and inactivation of one transgene locus in the presence of the second. To study whether the chromosomal location of a transgene influences its susceptibility to trans-inactivation, we retransformed four transgenic lines, which contained the same construct (H) integrated in different chromosomal locations, with a second, partially homologous construct (K). At least 50 double transformants (DTs) were regenerated from each single transformant (ST) and screened for inactivation of markers (chloramphenicol acetyltransferase (CAT,); hygromycin resistance (HYG)) at the resident H locus. For two STs, H locus markers were inactivated in less than 1% of the DTs, suggesting that, at these integration sites, H was relatively resistant to trans-inactivation. In contrast, the other two STs appeared to be more sensitive to trans-inactivation: 4-10% of the DTs were CAT- and/or Hyq. Inactivation of H locus markers could be attributed to two distinct phenomena: 1. Regeneration from cells containing different epigenetic states of H, in which either both, one or none of the H alleles was active. This instability in the expression of the H locus, which was independent of K, was more pronounced in the homozygous state, and was associated with cellular mosaicism of expression and methylation 2. The presence of an unlinked K locus could weaken the Hyg phenotype by transcriptional inactivation and increased methylation of the hph gene at the H locus. These results indicated that a susceptible transgene locus is inherently unstable and partially methylated, and that these characteristics are exacerbated when the locus is homozygous for the transgene and/or when an unlinked homologous transgene is present.

=> d 30 so

- L8 ANSWER 30 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- SO Molecular and General Genetics, (1994) Vol. 244, No. 3, pp. 230-241. CODEN: MGGEAE. ISSN: 0026-8925.

=> d 31-33 ti

- L8 ANSWER 31 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 18
- TI Paramutation, an allelic interaction, is associated with a stable and heritable reduction of transcription of the maize b regulatory gene.
- L8 ANSWER 32 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States

- of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 19
- TI Differences in DNA-methylation are associated with a paramutation phenomenon in transgenic petunia.
- L8 ANSWER 33 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI PARAMUTATION OF THE MAIZE R GENE.
- => d 33 ab
- L8 ANSWER 33 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- => d 33 so
- L8 ANSWER 33 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- Journal of Cellular Biochemistry Supplement, (1991) No. 15 PART A, pp. 142.

 Meeting Info.: SYMPOSIUM ON THE GENETIC DISSECTION OF PLANT CELL PROCESSES. HELD AT THE 20TH ANNUAL MEETING OF THE KEYSTONE SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY, KEYSTONE, COLORADO, USA, JANUARY 10-17, 1991. J CELL BIOCHEM SUPPL.
- => d 32 ab

ISSN: 0733-1959.

- L8 ANSWER 32 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 19
- => d 32 so
- ANSWER 32 OF 33 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 19
- SO The plant journal, July 1993. Vol. 4, No. 1. p. 89-100
 Publisher: Oxford: Blackwell Scientific Publishers and BIOS Scientific
 Publishers.
 ISSN: 0960-7412
- => d 33 ab
- L8 ANSWER 33 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- => d 33 so
- L8 ANSWER 33 OF 33 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- SO Journal of Cellular Biochemistry Supplement, (1991) No. 15 PART A, pp. 142.

Meeting Info.: SYMPOSIUM ON THE GENETIC DISSECTION OF PLANT CELL PROCESSES HELD AT THE 20TH ANNUAL MEETING OF THE KEYSTONE SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY, KEYSTONE, COLORADO, USA, JANUARY 10-17, 1991. J CELL BIOCHEM SUPPL.

ISSN: 0733-1959.

=> s 19 and paramut?

L10 44 L9 AND PARAMUT?

=> dup rem 110

PROCESSING COMPLETED FOR L10

L11 23 DUP REM L10 (21 DUPLICATES REMOVED)

=> d 1-10 tui

'TUI' IS NOT A VALID FORMAT

In a multifile environment, a format can only be used if it is valid in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ti

- L11 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- TI Chromatin conversations: mechanisms and implications of paramutation
- L11 ANSWER 2 OF 23 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI **Paramutation**, an allele interaction that causes heritable changes in transcription involves long distance interactions and chromatin structural changes.
- L11 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L11 ANSWER 4 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 2
- TI A mutation that prevents **paramutation** in maize also reverses Mutator transposon methylation and silencing.
- L11 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
- TI Differential chromatin structure within a tandem array 100 kb upstream of the maize bl locus is associated with paramutation
- L11 ANSWER 6 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 4
- TI The regulatory regions required for B' paramutation and expression are located far upstream of the maize bl transcribed sequences.
- L11 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Long-distance cis and trans interactions mediate paramutation
- L11 ANSWER 8 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 5
- TI Genetic factors required to maintain repression of a paramutagenic maize pl1 allele.
- L11 ANSWER 9 OF 23 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Gene activation and gene silencing.
- L11 ANSWER 10 OF 23 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Epigenetic control of gene expression in plants.

=> dup rem 112 PROCESSING COMPLETED FOR L12 L13 22 DUP REM L12 (18 DUPLICATES REMOVED)

=> d 1-10 ti

- L13 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Pilot screening programme for small molecule activators of p53
- L13 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- TI 2,6-Disubstituted pyran-4-one and thiopyran-4-one inhibitors of DNA-Dependent protein kinase (DNA-PK)
- L13 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L13 ANSWER 4 OF 22 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 2
- TI Genetic factors required to maintain repression of a paramutagenic maize. . pl1 allele.
- L13 ANSWER 5 OF 22 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 3
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L13 ANSWER 6 OF 22 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 4
- TI Paramutation alters regulatory control of the maize pl locus.
- L13 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Combined solar collector and photovoltaic cells
- L13 ANSWER 8 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Repellency of Deer Away Big Game Repellent(R) to eastern cottontail rabbits.
- L13 ANSWER 9 OF 22 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 5
- TI Epigenetic allelic states of a maize transcriptional regulatory locus exhibit overdominant gene action.
- L13 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Solar cogeneration panels
- => s 113 and paramut?
- L14 9 L13 AND PARAMUT?
- => d 1-9 ti
- L14 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI Genetic factors required to maintain repression of a paramutagenic maize pl1 allele.

- L14 ANSWER 2 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L14 ANSWER 3 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI Paramutation alters regulatory control of the maize pl locus.
- L14 ANSWER 4 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI Paramutation and related allelic interactions.
- L14 ANSWER 5 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN
- TI Allelic interactions heritably alter the activity of a metastable maize pl allele.
- L14 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L14 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
- TI b and pl paramutation in maize: heritable transcription states programmed during development
- L14 ANSWER 8 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI B And pl paramutation in maize: Heritable transcription states programmed during development.
- L14 ANSWER 9 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Paramutation: An allelic interaction that causes heritable changes in transcription.
- => s ((dorweiler j?) or (dorweiler j?))/au L15 28 ((DORWEILER J?) OR (DORWEILER J?))/AU
- => s 115 and paramut?
- L16 19 L15 AND PARAMUT?
- => dup rem 116

PROCESSING COMPLETED FOR L16

L17 8 DUP REM L16 (11 DUPLICATES REMOVED)

- => d 1-8 ti
- L17 ANSWER 1 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN Differential gene expression in mediator of paramutation (mop)
 - mutants of maize.
- L17 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L17 ANSWER 3 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 1

- 'TI A mutation that prevents paramutation in maize also reverses Mutator transposon methylation and silencing.
- L17 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
- TI Differential chromatin structure within a tandem array 100 kb upstream of the maize bl locus is associated with paramutation
- L17 ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 3
- TI The regulatory regions required for B' paramutation and expression are located far upstream of the maize bl transcribed sequences.
- L17 ANSWER 6 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 4
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L17 ANSWER 7 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 5
- TI Paramutation in maize.
- L17 ANSWER 8 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 6
- TI Paramutation and related allelic interactions.
- => s ((lisch d?) or (lisch, d?))/au L18 51 ((LISCH D?) OR (LISCH, D?))/AU
- => s 118 and paramut? L19 5 L18 AND PARAMUT?
- => dup rem 119
 PROCESSING COMPLETED FOR L19
 L20 3 DUP REM L19 (2 DUPLICATES REMOVED)
- => d 1-3 ti
- L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L20 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
 TI A mutation that prevents **paramutation** in maize also reverses
 Mutator transposon methylation and silencing
- L20 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2 TI Mutator transposons
- => d 1-3 so
- L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
- SO PCT Int. Appl., 173 pp. CODEN: PIXXD2
- L20 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(9), 6130-6135 CODEN: PNASA6; ISSN: 0027-8424

L20 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2 SO Trends in Plant Science (2002), 7(11), 498-504

CODEN: TPSCF9; ISSN: 1360-1385

=> s ((kubo k?) or (kubo, k?))/au 4187 ((KUBO K?) OR (KUBO, K?))/AU

=> s 121 and paramut?

12 L21 AND PARAMUT? L22

=> dup rem 122 PROCESSING COMPLETED FOR L22 8 DUP REM L22 (4 DUPLICATES REMOVED)

=> d 1-8 ti

- L23 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L23 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. DUPLICATE 1 (2005) on STN
- mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L23 ANSWER 3 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN B And pl paramutation in maize: Heritable transcription states programmed during development.
- L23 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- b and pl paramutation in maize: heritable transcription states programmed during development
- ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National L23 Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 2
- TT Sequences required for paramutation of the maize b gene map to a region containing the promoter and upstream sequences.
- L23 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- Paramutation: An allelic interaction that causes heritable changes in transcription.
- L23 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- ΤI Paramutation: An allelic interaction that causes heritable changes in transcription.
- L23 ANSWER 8 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- ΤI Paramutation in maize: Allelic interactions associated with heritable changes in transcription.
- => s ((carey c?) or (carey, c?))/au 458 ((CAREY C?) OR (CAREY, C?))/AU L24

=> s 121 and paramut? L25

12 L21 AND PARAMUT?

=> dup rem 125 PROCESSING COMPLETED FOR L25 L26 8 DUP REM L25 (4 DUPLICATES REMOVED)

- L26 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L26 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 1
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L26 ANSWER 3 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN B And pl paramutation in maize: Heritable transcription states programmed during development.
- L26 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- TI b and pl paramutation in maize: heritable transcription states programmed during development
- L26 ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 2
- TI Sequences required for paramutation of the maize b gene map to a region containing the promoter and upstream sequences.
- L26 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN Paramutation: An allelic interaction that causes heritable changes in transcription.
- L26 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN TI Paramutation: An allelic interaction that causes heritable changes in transcription.
- L26 ANSWER 8 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN TI Paramutation in maize: Allelic interactions associated with heritable changes in transcription.

=> d 4 so

- L26 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
- SO Cold Spring Harbor Monograph Series (1996), 32(Epigenetic Mechanisms of Gene Regulation), 289-304
 CODEN: CHMSDK; ISSN: 0270-1847

=> d 5 so

- L26 ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2005) on STN DUPLICATE 2
- SO Genetics, Aug 1995. Vol. 140, No. 4. p. 1389-1406 Publisher: Bethesda, Md. : Genetics Society of America. CODEN: GENTAE; ISSN: 0016-6731

=> d 6 so

L26 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN SO Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 21B, pp. 157.

Meeting Info : Keystone Symposium on Epigenetic Regulation of

Meeting Info.: Keystone Symposium on Epigenetic Regulation of Transcription. Hilton Head Island, South Carolina, USA. April 4-10, 1995. ISSN: 0733-1959.

=> d 7 ab

L26 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

=> d 7 so

L26 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN SO Plant Physiology (Rockville), (1995) Vol. 108, No. 2 SUPPL., pp. 14.

Meeting Info.: Annual Meeting of the American Society of Plant Physiologists. Charlotte, North Carolina, USA. July 29-August 2, 1995.

CODEN: PLPHAY. ISSN: 0032-0889.

=> d 9 so

8 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE The answer numbers requested are not in the answer set. ENTER ANSWER NUMBER OR RANGE (1):8

L26 ANSWER 8 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN SO Journal of Cellular Biochemistry Supplement, (1994) Vol. 0, No. 18B, pp. 12.

Meeting Info.: Keystone Symposium on Transposition and Site-Specific Recombination: Mechanism and Biology. Park City, Utah, USA. January 21-28, 1994.

ISSN: 0733-1959.